

# Hammad Khan

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## Education

### University of Toronto

Toronto, Canada

HONORS B.Sc. BIOLOGY SPECIALIST, COMPUTER SCIENCE MINOR

Sep. 2014 - Exp. 2018

- University of Toronto student completing an Honors BSc. in Biology with a focus on Computational Biology and Bioinformatics.
- Experience with defining workflows for data analysis and interpreting results of computational analysis of biological data.
- Courses focusing on Human and Developmental Biology, Genomics, Computational Systems Biology, Cell and Microbiology, Computer Programming, Bioinformatics, Statistics and Biometrics, and Data Visualization. A multitude of lab courses throughout to develop practical experience in wet labs as well as bioinformatics practices.
- Proficient with lab and computational environments with an understanding of programming and statistical concepts, lab procedures and processes, and scientific literacy.
- Scotiabank Entrance Scholarship for Academic Excellence, Nancy Salmon Scholarship Fund

## Work Experience

### Cognizant

Toronto, Canada

TECHNICAL REPORTING ANALYST - TEAM LEAD

May. 2018 - Present

- Identified data-driven solutions to incidents for TJX Project while managing analysis and support team in day to day operations.
- Facilitated communication between clients and specialized teams while identifying areas for improvement and process gaps.
- Performed incident data analysis to diagnose problem areas using Excel to identify issues and formulate targeted solutions.
- Engaged in store systems support as systems engineer and created guidelines for systems maintenance and technical troubleshooting based on incident data

## Project Experience

### Independent Research Project

University of Toronto, Canada

GENOMICS

January. 2018 - March. 2018

- Performed statistical and biological analysis on patient data from the Personal Genome Project by emulating pipelines presented in journal article.
- Visualized statistical results in R with MatLab and presented interactive interface for results with R Shiny Applet.

### Bioinformatics and Computational Biology Hackathon 2018

University of Toronto, Canada

FINALISTS

March. 2018

- Created a data-driven visual representation of our current understanding of the human genome by pulling data from various databases and compiling it in a final graphical render.
- Collaborated with a team of engineering, biology, and bioinformatics students to deliver a visual model, generated from multiple programming languages and disciplines.

## Skills

### Technical

Python (Proficient), R(Proficient), Perl(Familiar), SPSS Statistics (Intermediate), Unix Shell Programming Environment (Intermediate), Microsoft Excel (Proficient), Adobe Photoshop (Proficient), Adobe Illustrator (Proficient), Microsoft Office Suite (Proficient), .

### Relevant Courses

CSC - Programming and Development (Python, R, Programming Environment), Bioinformatics (DNA/Protein alignment, DNA sequence analysis, interacting with scientific databases, and genome sequencing, Genomics (Variant mining, RNAseq transcript assembly and analysis, de Novo assembly), Computational Systems Biology (R Data structures, Expression Data Analysis, Data Visualization)

Biology Labs - Micro-pipetting, Bacterial Transformation, Spectrophotometry, Serial Dilutions, Bacterial Transformation, Electrophoresis, PCR Amplification, Site-Directed Mutagenesis, Dissection and Preservation of Tissue.